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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/002,496	11/15/2001	Kjell Noren	P01,0374	2176	
26574 75	590 03/11/2004		EXAM	INER	
SCHIFF HARDIN, LLP			MACHUGA, JOSEPH S		
PATENT DEP	PATENT DEPARTMENT				
6600 SEARS T	OWER		Kjell Noren P01,0374 2176 EXAMINER		
CHICAGO, IL	. 60606-6473		3762	4	
			DATE MAILED: 03/11/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
•		10/002,496	NOREN ET AL.			
er b	Office Action Summary	Examiner	Art Unit			
		Joseph S. Machuga	3762			
Period fo	The MAILING DATE of this communica or Reply	tion appears on the cover sheet	with the correspondence address	;		
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum statuture to reply within the set or extended period for reply will reply received by the Office later than three months after ed patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, majcation. lays, a reply within the statutory minimum of oncy period will apply and will expire SIX (6) for the polication to become the application to be application to become the application to be application.	y a reply be timely filed f thirty (30) days will be considered timely. MONTHS from the mailing date of this communi e ABANDONED (35 U.S.C. § 133).	ication.		
Status						
2a)□	Responsive to communication(s) filed This action is FINAL. 2b Since this application is in condition fo closed in accordance with the practice	D⊠ This action is non-final. r allowance except for formal m		its is		
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-8 is/are pending in the appl 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1-8 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	withdrawn from consideration.				
Applicat	ion Papers					
10)	9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority	under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmer	nt(e)					
1) Noti 2) Noti 3) Info	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO rmation Disclosure Statement(s) (PTO-1449 or PT er No(s)/Mail Date <u>2 and 3</u> . Trademark Office)-948) Paper	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO-152) 			

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 2. Claims 1, 6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP document #0347708.
- 3. The EP document discloses an implantable medical device. The reference notes in column 3 lines 45+ that monitoring the hearts end diastolic pressure provides a clear indicator of the patient's condition and also indicates that monitoring the systolic pressure provides little information. The reference achieves the objectives through a pressure sensor 26 located in the right ventricle. The raw pressure data is passed through a low pass filter. While not explicitly stated it is considered obvious that the device has a signal processor and timing circuit that identifies the start and end of the diastolic phase since the circuitry is designed to locate the peak **diastolic** pressure as opposed to just the peak pressure.
- 4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over EP #0347708 as applied to claim 1 above, and further in view of Kieval et al #5626623.
- 5. Kieval et al disclose an implantable medical device. The implant includes a differentiator and comparator to determine threshold values (note figure 1 where two

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EPAD threshold values are shown.) This EPAD value corresponds to the end of the diastolic period.

- 6. Given this teaching it would have been obvious to one of ordinary skill in the art to add a differentiator and comparator to the timing circuit in the EP document to accurately locate the end of the diastolic period.
- 7. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over EP#0347708 as applied to claim 1 above, and further in view of Noren #5871509.
- 8. Noren teaches the use of a medium pass filter to eliminate externally originating electromagnetic interference from a medical implant. To add such a filter as taught by Noren to the device in the EP document to eliminate interference from external electromagnetic sources would have been obvious to one of ordinary skill in the art.
- 9. Claims 2-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP0347708 as applied to claim 1 above, and further in view of Carney #5368040.
- 10. Carney discloses an implantable medical device. The implant includes a differentiator and comparator to determine threshold values by calculating the first and second derivatives of the pressure reading. This method gives clear indications of the markers. To use this method in the device disclosed in the EP document would have

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been obvious to one of ordinary skill in the art given Carneys teaching that it gives clear

and accurate markers.

11. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Joseph S. Machuga whose telephone number is 703-

305-6184. The examiner can normally be reached on Monday-Friday; 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Angela D Sykes can be reached on 703-308-5181. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Joseph S. Machuga

Examiner

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ANGELA D. SYKES SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700

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